Delta Risk Management Strategy



Informational Presentation Delta Protection Commission January 22, 2009

Michael Floyd Richard Kranz

Why DRMS?

- 2000 CalFed Record of Decision
 - Called for Risk Assessment of Delta Levees
- 2005 Levee Risk Analysis Team
 - Did Preliminary Work Seismic only
 - Developed Project Scope for DRMS
- 2005 AB 1200 Enacted

Why DRMS? (continued)

- AB 1200 (CWC 139.2) Sets General Framework for DRMS
 - DWR to evaluate potential impacts to the Delta from:
 - Subsidence
 - Earthquakes
 - Floods
 - Climate Change
 - Combination of above

Why DRMS? (continued)

- AB 1200 Continued (CWC 139.4)
 - DWR/DFG to Determine Principal Options for Delta –
 DWR to comparatively rate for ability to:
 - Prevent Disruption of Water Supplies Derived from Delta
 - Improve the Quality of Water Supplies Derived from Delta
 - Reduce Salts, Maintain Water Quality
 - Preserve, Protect, Improve Delta Levees
 - Protect Water Rights/Environments of River Systems
 - Protect Infrastructure within Delta
 - DFG shall rate all options for its ability to restore salmon & other fisheries that use the Delta
 - Report submitted to legislature in January 2008

DRMS T.A.C.

Technical Advisory Committee

- Dr. Raymond Seed, University of California, Berkeley
- Dr. Norm Abrahamson, Independent Seismological Consultant
- Gilbert Cosio, P.E., MBK Engineers •
- Dr. Wim Kimmerer, San Francisco State University, ERP Science Board
- Dr. Peter Moyle, University of California, Davis, ERP Science Board
- Roger Fujii, United States Geological Survey
- Jon Burau, United States Geological Survey

DRMS S.C.

DRMS Steering Committee

Includes Members Representing:

- Members from DRMS Technical Advisory Committee
- U.S. Corps of Engineers
- California Department of Fish & Game
- California Bay Delta Authority
- U.S. Bureau of Reclamation
- Delta/Suisun Marsh Experts
- Public
- State Water Project Contractors
- Central Valley Project Contractors

DRMS Phase 1 - Purpose

Development of a Risk Analysis to Evaluate the Impact to Delta Levees from

- Floods
- Earthquakes
- Subsidence
- Normal Conditions
- Climate Change
- Determine Consequences to Economy & Ecosystem
- Risk Analysis Report public release Feb-Mar '09

DRMS Phase 1 - Goals

- Identification of Potential Risks to Delta Levees
- Analysis of Impacts on Delta and State
- Results to be used for:
 - Long-Term Planning Purposes → YES
 - − Alternatives Proposal→ NO
 - − Design Purposes→ NO

DRMS Phase 2 - Purpose

Development of Risk Reduction/Risk Management Strategies for Long-Term Management of Delta

- Final Report public release Feb-Mar '09
- Levee Optimization Spreadsheet
 - User-friendly interface
 - Ability to rank islands based on user's criteria

DRMS Phase 2 - Methodology

- Develop a menu of risk reduction measures that could reduce risk "Building Blocks"
- Package the measures into different combinations "*Trial Scenarios*"
- Use Risk Model to evaluate potential risk reductions
- Evaluate benefits and costs of risk reduction measures

DRMS Phase 2 – *Trial Scenarios*

- Improved Levees
- Armored Pathway
- Isolated Conveyance
- Dual Conveyance

DRMS - Schedule & Information

Will Phase 1 -

Feb/Mar 2009

- Risk Report and Executive Summary

Phase 2 –

Feb/Mar 2009

- Report and Executive Summary

Public Workshops –

Apr/May 2009

- Northern California
- Delta
- Southern California

DRMS – Contact Information

Michael Floyd
Soon Bookshop

Sean Bagheban

Richard Kranz

mfloyd@water.ca.gov

seanb@water.ca.gov

rkranz@water.ca.gov

www.water.ca.gov/floodmgmt/dsmo/sab/drmsp/